Index of Claims

| <b>Application No</b> | Ap | plicat | ion | No |
|-----------------------|----|--------|-----|----|
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09/864,862

Examiner

Jiping Lu

Applicant(s)

PEARCY ET AL.

Art Unit

3749

√ Rejected
= Allowed

\_ (Through numeral) Cancelled

Restricted

Non-Elected
I Interference

A Appeal
O Objected

| E         E         B         E   | Cla      | aim      |          |           |          | Da       | te           |                   |                 |           | Cla | im       |  | Date                 |                     |                    |  | CI  | aim |          |          | С             | ate             |              |         |  |
|---|----------|----------|----------|-----------|----------|----------|--------------|-------------------|-----------------|-----------|-----|----------|--|----------------------|---------------------|--------------------|--|-----|-----|----------|----------|---------------|-----------------|--------------|---------|--|
| 1         V         51         101         102         102         102         102         102         103         103         103         103         103         104         104         104         104         105         106         106         106         107         105         106         107         107         107         107         107         107         107         107         107         107         107         108         109         109         100         107         109  | l _      | <u>a</u> | 4        |           |          |          |              |                   |                 |           |     | <u>a</u> |  |                      |                     |                    |  |     | ā   |          |          |               |                 |              |         |  |
| 1         V         51         101         102         102         102         102         102         103         103         103         103         103         104         104         104         104         105         106         106         106         107         105         106         107         107         107         107         107         107         107         107         107         107         107         108         109         109         100         107         109  | na l     | gi       | 8        |           |          |          |              |                   |                 |           | nal | Ë        |  |                      |                     | İ                  |  | nal | gi  |          |          |               |                 | -            | Ì       |  |
| 1         V         51         101         102         102         102         102         102         103         103         103         103         103         104         104         104         104         105         106         106         106         107         105         106         107         107         107         107         107         107         107         107         107         107         107         108         109         109         100         107         109  | ίΞ       | ō        | 9/3      |           |          | - 1      |              | [                 |                 |           | Œ   | 5        |  |                      |                     |                    |  | 证   | Ö   |          |          |               |                 | 1            |         |  |
| 2   N   |          |          |          |           | 4        |          | 4_           | $\perp$           |                 | 4         |     |          | $\longrightarrow$                                |                      |                     |                    |  |     |     |          | ļ        |               |                 |              | 1       | $\perp$  |
| 3   |          |          |          |           | -        |          | _            | $\sqcup$          |                 | 4         |     | 51       | $\rightarrow$                                    | $\dashv$             |                     |                    |  |     | 101 |          | -        |               | _               | _            |         |  |
| 4   |          |          |          | $\dashv$  | +        | $\perp$  | +            | <del>  -  </del>  |                 |           |     |          | ++++   |                      |                     | _                  |  |     |     |          |          | $\dashv$      |                 |              | -       | +  |
| 5   |          |          |          | $\dashv$  | +        | +        | +            | $\vdash$          |                 |           |     | 53       |  |                      |                     |                    |  |     | 103 |          | $\vdash$ |               | -               | 4            | -       | +  |
| 6   |          |          |          | $\dashv$  | -        |          |              | ╂                 |                 | -         |     | 54       | ++++   | -                    |                     |                    |  |     |     | -        |          |               | -               |              | _       | $\dashv$   |
| T   |          |          |          | $\dashv$  | +        | +        | +            | ╁╾╁               | -               |           |     | 22       | <del></del>                                      |                      |                     |                    |  |     | 100 | $\vdash$ | -        | $\dashv$      |                 | <del>-</del> | +       | +  |
| S   |          |          |          | $\dashv$  | +        | +        | +            | $\vdash$          | +               | $\dashv$  |     | 57       | <del>-   -  </del>                               |                      |                     |                    |  |     | 107 |          |          | $\vdash$      | $\dashv$        | +            | +       | +  |
| 9   |          |          |          | $\dashv$  | +        | +        | +            | $\vdash$          | <del></del>     | -         |     |          |  | -++                  |                     |                    |  |     |     |          |          | $\dashv$      |                 | +            | +       | +  |
| 10   V  |          |          | _        | $\dashv$  | $\dashv$ | +        | +            | $\vdash$          | +               | $\dashv$  |     | 50       |  |                      |                     |                    |  |     |     |          | $\vdash$ | $\dashv$      | $\dashv$        | -            |         | $\dashv \dashv$  |
| 11  |          |          |          |           |          |          | +            | $\vdash$          |                 | $\dashv$  |     |          | $\overline{}$                                    | -   -                | +++                 | -                  |  |     |     |          | $\vdash$ | -             | -+              |              | +       |  |
| 12  |          |          |          | $\dashv$  | 十        | +        | +-           |                   | -               | 1         |     |          | <del>- - - </del>                                | $\dashv$             | +                   | +                  |  |     |     |          | $\vdash$ |               | $\dashv$        | +            | +       | +  |
| 13  |          |          |          | $\dashv$  | $\dashv$ | $\dashv$ | +            | $\dagger \dagger$ | $\vdash$        | $\dashv$  |     |          | <del>                                     </del> | $\dashv$             | $\dashv \dagger$    | $\vdash$           |  |     | 112 | $\dashv$ |          |               | +               | $\dashv$     |         | +  |
| 14         N         64         114         115         115         116         115         115         116         115         116         117         116         117         116         117         117         117         117         117         118         119         68         1118         119         119         119         119         119         119         119         120         120         121         121         121         122         22         23         77         121         121         121         122         23         123         123         123         124         124         124         124         124         124         124         124         124         124         124         124         125         126         26         77         77         127         127         28         128         128         129         30         127         28         128         128         129         30         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31 <td< td=""><td></td><td></td><td></td><td><math>\neg</math></td><td>+</td><td><math>\top</math></td><td><math>\top</math></td><td>Н</td><td></td><td><math>\exists</math></td><td></td><td></td><td></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td>_ _</td><td></td><td></td><td>113</td><td></td><td><math>\Box</math></td><td></td><td><math>\dashv</math></td><td><math>\top</math></td><td></td><td>+-</td></td<> |          |          |          | $\neg$    | +        | $\top$   | $\top$       | Н                 |                 | $\exists$ |     |          |  | $\dashv$             | $\dashv$            | _ _                |  |     | 113 |          | $\Box$   |               | $\dashv$        | $\top$       |         | +-   |
| 15  |          |          |          | $\dashv$  | $\top$   | $\top$   | T            | 1 1               | $\neg \uparrow$ | 7         |     |          |  | $\dashv \dashv$      | $\dashv \uparrow$   |                    |  |     |     |          | П        |               | $\dashv$        | $\dashv$     | $\top$  | $\top$   |
| 16  |          |          |          | $\neg$    | $\top$   |          | 1            | $\Box$            |                 |           |     | 65       |  |                      | $\top$              |                    |  |     | 115 |          | $\Box$   |               | $\neg \uparrow$ |              | 十       | $\top$   |
| 17  |          |          |          |           | $\neg$   |          | 1            | $\Box$            |                 |           |     |          |  |                      |                     |                    |  |     |     |          |          | $\neg$        | $\neg$          | $\neg$       | _       |  |
| 18         19         68         118         119         119         119         119         120         120         120         120         120         121         121         121         121         122         122         122         122         122         122         122         123         123         123         123         124         124         124         124         124         125         125         125         125         125         125         125         125         125         126         127         127         127         127         128         128         128         128         129         129         129         129         129         129         130         130         130         130         131         131         131         131         131         131         131         132         33         133   |          |          |          |           | 1        |          | 1            |                   |                 |           |     | 67       |  |                      |                     |                    |  |     | 117 |          |          | $\exists$     | T               | T            |         | $\top$   |
| 19  |          |          |          |           | $\top$   | $\neg$   | 1            |                   |                 |           |     |          |  |                      |                     |                    |  |     |     |          |          |               | T               |              | _       |  |
| 120   |          |          |          |           | T        |          |              |                   |                 |           |     | 69       |  |                      |                     |                    |  |     | 119 |          |          |               |                 |              |         |  |
| 22         72         122         123         124         124         124         124         124         124         125         125         125         126         125         126         126         126         126         127         127         127         128         128         129         128         129         129         129         129         130         130         130         131         131         131         131         131         131         132         132         132         132         132         133         133         133         133         133         133         133         133         133         134         135         136         136         136         136         136         137         137         137         137         137         137         137         137         137         137         137         137   |          | 20       |          | $\neg$    |          |          |              |                   |                 |           |     | 70       |  |                      |                     |                    |  |     | 120 |          |          |               |                 |              |         | $\top$   |
| 23         73         123         124         124         125         125         126         126         126         126         126         126         126         126         127         127         127         127         127         128         128         128         129         130         1   |          |          |          |           |          |          |              |                   |                 |           |     | 71       |  |                      |                     |                    |  |     | 121 |          |          |               |                 |              |         |  |
| 24         74         124         125         125         126         126         126         126         126         126         126         127         127         127         127         127         128         128         128         129         129         129         129         129         130         130         130         130         131         131         131         131         131         131         132         132         132         132         133         133         133         133         133         133         134         134         134         134         134         134         134         134         134         134         134         134         136         135         135         136         136         136         137         137         137         137         137         137         138         138         138         138         138         138         138         139         139         140         140         141         141         141         141         141         142         142         142         142         143         143         143         144         144         144         144         144   |          |          |          |           |          |          |              |                   |                 |           | -   |          |  |                      |                     |                    |  |     | 122 |          |          |               | ]               |              |         |  |
| 25         26         76         126         126         27         77         127         127         28         128         128         128         128         128         129         129         130   |          |          |          |           |          |          |              |                   |                 |           |     | 73       |  |                      |                     |                    |  |     | 123 |          |          |               |                 |              |         |  |
| 26         76         126         127         127         127         127         127         127         128         128         129         129         129         129         130         130         130         130         130         131         131         131         131         131         131         132         132         132         133         133         133         133         133         133         133         134         134         134         134         134         134         134         134         134         135         135         135         135         136         136         136         137         137         137         137         137         137         137         138         139         139         140         140         140         140         140         140         141         141         141         141         141         141         141         141         142         143         143         143         143         144         144         144         144         144         144         144         144         144         144         144         144         145         145         146         146   |          | 24       |          |           |          |          | $\perp$      |                   |                 |           |     | 74       |  |                      |                     |                    |  |     | 124 |          |          |               |                 |              |         |  |
| 27         28         77         128         128         128         128         128         129         129         129         129         130         130         130         130         130         130         130         131         131         131         131         131         132         132         132         132         132         133         134  |          | 25       |          |           |          |          |              |                   |                 |           |     |          |  |                      |                     |                    |  |     | 125 |          |          |               |                 |              |         |  |
| 28       78       128         29       79       129         30       80       130         31       81       131         32       82       132         33       83       133         34       84       134         35       85       135         36       86       136         37       87       137         38       88       138         39       89       139         40       90       140         41       91       141         42       92       142         43       93       143         44       94       144         45       96       146         47       97       147         48       98       149   | <u></u>  | 26       |          |           |          |          |              |                   |                 |           |     | 76       |  |                      |                     |                    |  |     |     |          |          |               |                 |              |         | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |
| 29         79         129           30         80         130           31         81         131           32         82         132           33         83         133           34         84         134           35         85         135           36         86         136           37         87         137           38         88         138           39         90         140           41         91         141           42         92         142           43         93         143           44         94         144           45         95         145           46         96         146           47         97         147           48         98         148           49         99         149   |          |          |          |           |          |          |              |                   |                 |           |     |          |  |                      |                     |                    |  |     | 127 |          |          |               |                 |              |         | $\perp$  |
| 30  |          |          |          | _         | _        |          | 1            | $\sqcup$          |                 | _         |     |          |  |                      | $\perp \perp \perp$ |                    |  |     |     |          |          |               | _               | _            | $\perp$ | 4  |
| 31       81       131       132       132       132       133       134       134       134       134       134       134       134       134       134       134   |          | 29       |          | _         | _        |          | <del> </del> |                   |                 | 4         |     | 79       |  |                      |                     |                    |  |     | 129 |          |          |               | _               | _            | 4       | $\perp$  |
| 32       82       132         33       83       133         34       84       134         35       85       135         36       86       136         37       87       137         38       88       138         39       89       139         40       90       140         41       91       141         42       92       142         43       93       143         43       93       143         44       94       144         45       95       145         46       96       146         47       97       147         48       98       148         49       99       149   | ļ        |          |          | _         | _        |          | _            | 1                 | _               | 4         |     |          | -  |                      |                     |                    |  |     |     |          | _        | _             | -               |              | _       |  |
| 33       83       133         34       84       134         35       85       135         36       86       136         37       87       137         38       88       138         39       89       139         40       90       140         41       91       141         42       92       142         43       93       143         44       94       144         45       95       145         46       96       146         47       97       147         48       98       148         49       99       149   | <u> </u> |          |          | _         | 4        | -        | ┿-           |                   | -               | 4         |     |          | $\longrightarrow$                                |                      | $\rightarrow$       |                    |  |     | 131 |          |          | _             | $\dashv$        | 4            | _       | +  |
| 34       84       134         35       86       135         36       86       136         37       87       137         38       88       138         39       89       139         40       90       140         41       91       141         42       92       142         43       93       143         44       94       144         45       95       145         46       96       146         47       97       147         48       98       148         49       99       149   |          |          |          |           |          |          | 1            | 1                 | _               | 4         |     |          |  |                      | $\dashv$            | _                  |  |     | 132 |          | -        |               | $\dashv$        |              | +       |  |
| 35     85       36     136       37     87       38     88       39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     148       49     149  |          |          | $\vdash$ | _         | +        | +        | +-           |                   |                 | $\dashv$  |     |          | +++  | +                    | ++                  |                    |  |     |     |          | $\vdash$ | $\rightarrow$ | -               | $\dashv$     |         | +  |
| 36     86       37     136       38     88       39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99       136       137       138       139       139       140       141       141       142       143       144       145       146       147       148       149  | <b>-</b> | 25       | Н        | $\dashv$  | +        | +        | +            | $\vdash$          |                 | $\dashv$  |     |          |  |                      |                     | +                  |  |     | 134 | -        | $\vdash$ | $\dashv$      | $\dashv$        | +            | +       | + $+$  |
| 37     87       38     88       39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99       137     138       139     139       140     141       141     141       142     142       143     144       144     144       145     145       147     147       148     148       149     149   | $\vdash$ |          |          |           | +        |          | -            | $\vdash$          | +               | $\dashv$  |     |          | +++  | +                    |                     |                    |  |     |     |          |          |               |                 | +            | +       | +  |
| 38       88       138         39       90       139         40       90       140         41       91       141         42       92       142         43       93       143         44       94       144         45       95       145         46       96       146         47       97       147         48       98       148         49       99       149   | -        |          | $\vdash$ | -         | +        | -        | +            |                   | +               | $\dashv$  |     |          |  | $\dashv$             | +                   |                    |  |     | 137 |          | $\vdash$ |               | $\dashv$        | +            | +       | +  |
| 39       89       139         40       90       140         41       91       141         42       92       142         43       93       143         44       94       144         45       95       145         46       96       146         47       97       147         48       98       148         49       99       149   | -        |          | $\vdash$ | $\dashv$  | $\dashv$ |          | +-           | -                 |                 | $\dashv$  |     |          | _ -  |                      | +-+                 | +                  |  |     | 132 |          | $\vdash$ | $\dashv$      | $\dashv$        | +            | +       | +  |
| 40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   |          |          | $\vdash$ |           |          |          | +-           | $\vdash$          | +               | $\dashv$  |     |          |  |                      |                     | +                  |  |     | 130 |          | $\vdash$ | $\dashv$      | $\dashv$        | +            |         | +  |
| 41       91       141         42       92       142         43       93       143         44       94       144         45       95       145         46       96       146         47       97       147         48       98       148         49       99       149   | -        |          | $\vdash$ | $\dashv$  | +        | +        | +            |                   | +               | $\dashv$  |     |          | $\dashv$   | $\dashv \dashv$      |                     |                    |  |     |     | -+-      | $\vdash$ | $\dashv$      |                 | +            | +       | +  |
| 42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   | <b></b>  | 41       |          | -         | +        |          | +            | 1-1               | +               | $\dashv$  |     |          |  | $\dashv$             | ++                  | +                  |  |     | 141 | +        |          |               | $\dashv$        | $\dashv$     | +       | +  |
| 43     93       44     94       45     95       46     96       47     97       48     98       49     99   |          | 42       | $\vdash$ | $\dashv$  | +        | +        | +            | $\vdash$          | -+-             | $\dashv$  |     |          |  | $\dashv$             | ++                  | $\dashv$           |  |     | 142 | -        | $\vdash$ | +             | +               | $\dashv$     | +       | +  |
| 44     94     144       45     95     145       46     96     146       47     97     147       48     98     148       49     99     149   | <u> </u> |          |          | $\dashv$  | +        | +        | +            |                   | +               | $\dashv$  |     | 93       |  | $\neg \vdash \vdash$ | ++                  | +                  |  |     |     |          | Н        | 一             | -+              | +            | +       | +  |
| 45     95       46     96       47     97       48     98       49     99   |          |          |          | -         | +        | +        | +            | $\vdash$          |                 | +         |     |          |  | $\dashv$             |                     | $\neg \vdash \neg$ |  |     |     | $\dashv$ | $\vdash$ | $\dashv$      | 十               | $\dashv$     | +       | +  |
| 46     96       47     97       48     98       49     148  | <b></b>  | 45       |          | 1         |          | -        | † –          | $\vdash$          |                 | $\dashv$  |     |          | <del>-     -  </del>                             | $\dashv$             | $\dashv \uparrow$   | $\top$             |  |     | 145 |          | Н        | $\dashv$      | $\dashv$        | $\dashv$     | +       | +  |
| 47     97     147       48     98     148       49     99     149   |          |          |          | $\dashv$  | +        | $\top$   | $\top$       | $\Box$            |                 | 7         |     |          |  |                      | ++                  | $\top$             |  |     | 146 | +        | $\vdash$ | $\dashv$      | $\dashv$        | $\top$       | 1       | $\dashv \dashv$  |
| 48     98     148       49     99     149   |          |          |          | 寸         | _        | -        | $\dagger$    | $\vdash$          | -+-             | $\dashv$  |     |          |  | _                    |                     |                    |  |     | 147 | _        | H        | $\neg$        | $\dashv$        | $\dashv$     | +       | +-   |
| 49 99 149 149   | <b>—</b> |          |          |           | $\dashv$ |          | $T^{-}$      |                   | $\neg \vdash$   | $\dashv$  |     | 98       | 1-1-1  |                      | $\dashv \dashv$     | $\top$             |  |     | 148 | $\dashv$ | $\Box$   | $\dashv$      | _               | $\dashv$     | +       | $\top$   |
|   |          |          | П        |           |          |          | $T^-$        | П                 | $\neg$          | $\exists$ |     | 99       |  | $\top$               | 11                  | $\neg \neg$        |  |     | 149 |          | П        | $\dashv$      |                 | 7            | 1       | $\top$   |
| <u> </u>  |          | 50       |          | $\exists$ | T        |          | T            |                   |                 |           |     | 100      |  |                      | $\top$              |                    |  |     | 150 |          |          |               |                 |              | $\top$  | $\top$   |